

**PRODUCTION OF OLIGOMER OF ALPHA-OLEFIN**

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**Abstract of JP10045833**

**PROBLEM TO BE SOLVED:** To provide an industrially advantageous method for producing an oligomer of an  $\alpha$ -olefin by which a maintaining temperature high in reactivity can be adopted without causing an isomerization reaction of the product, and thereby capable of readily corresponding to a method by which a byproduct polymer and a catalyst component are simultaneously concentrated and separated while suppressing the precipitation of the byproduct polymer.

**SOLUTION:** This method for producing an oligomer of an  $\alpha$ -olefin is performed by oligomerizing the  $\alpha$ -olefin in the presence of a chrome-based catalyst and a reaction solvent in an oligomerization reactor, supplying a part or whole of the obtained reaction liquid to a degassing tower to recover the unreacted  $\alpha$ -olefin, further supplying the reaction liquid discharged from the degassing tower to a product distillation tower to recover the produced oligomer of the  $\alpha$ -olefin as a distillate. The temperature of the reaction liquid in a process line from the exit of the reactor to the entrance of the product distillation tower is maintained within the range of 100-150 deg.C, and the retention time of the reaction liquid from the supply to the degassing tower to the supply to the product distillation tower is within 1hr in the method.

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